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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/645,690	08/24/2000	Lizhong Sun	4215/PDD/CMP/RKK 4428	
44257 7	7590 06/23/2006		EXAMINER	
PATTERSON & SHERIDAN, LLP 3040 POST OAK BOULEVARD, SUITE 1500 HOUSTON, TX 77056			MARKOFF, ALEXANDER	
			ART UNIT	PAPER NUMBER
,			1746	
			DATE MAILED: 06/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		(				
	Application No.	Applicant(s)				
	09/645,690	SUN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Alexander Markoff	1746				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 08 Ma	ay 2006.					
	action is non-final.					
3) Since this application is in condition for allowan closed in accordance with the practice under E	•					
Disposition of Claims						
4) Claim(s) <u>1-9,11-18,26-31 and 33</u> is/are pending	g in the application.					
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9, 11-18, 26-31 and 33</u> is/are reject	ed.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	• • • • • • • • • • • • • • • • • • • •	` ,				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	(PCT Rule 17.2(a)).	-				
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)	_					
Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal Pa	atent Application (PTO-152)				
Paper No(s)/Mail Date	6)					

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### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 05/08/06 has been entered.

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-9, 11-18, 26-31 and 33 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for some of the disclosed pH, does not reasonably provide enablement for the entire range of the claimed pH. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to practice the invention commensurate in scope with these claims. The applicants amended the claims to recite application of the solution comprising ethylenediamine at concentration 0.1 to 3.0 % and an acid in the amount such that the composition has pH from about 5.0 to about 12.0.

The entire range of pH is not enabled because even 3.0 % solution of ethylenediamine without acid would have pH below 12. Adding acid to the solution

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would reduce the pH. The fact that the solutions having even higher concentrations of ethylenediamine than 3.0% have pH below 12 is evidenced by the Ethylenediamine article from <a href="www.chemicalland21.com">www.chemicalland21.com</a> and the abstract of the paper of Selwyn et al in Studies in Conservation, vol.2 No 2.

## Response to Amendment

4. The Declaration filed on 05/08/06 under 37 CFR 1.131 has been considered. The Examiner remains in the position that the Declaration is insufficient to establish the date prior the effective date of Small et al for the claimed invention. This is because the pending claims are not commensurate in scope with the evidence presented in the Declaration and because of the previously indicated deficiencies of the Declaration.

However, since the applicants amended the claims and since the amended claims are not rejected over Small et al the issue is moot.

## Information Request

5. It is noted that the evidence presented in the above-mentioned Declaration names Fritz Redeker as an inventor, while the declaration of the instant application names Fred Redeker. Clarification of the inventorship is requested. If the same person is referenced, an evidence to support such is also requested. If the referenced inventors are not the same person, the claims should be considered as rejected under 35 USC 102 (f/g).

## Response to Arguments

6. Applicant's arguments with respect to claims 1-9, 11-18, 26-31 and 33 have been considered but are moot in view of the new ground(s) of rejection.

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Markoff whose telephone number is 571-272-1304. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alexander Markoff Primary Examiner Art Unit 1746

**AM** 

ALEXANDER MARKOFF PRIMARY EXAMINER